

## THE ABSTRACT OF THE DISCLOSURE

An image analyzing apparatus includes a plurality of stimulating ray sources, a light detector and an image reading apparatus for producing image data by photoelectrically detecting fluorescence emission by the light detector, the image analyzing apparatus further including a template producing section for producing a template based on template data produced by photoelectrically detecting by the light detector of the image reading apparatus a plurality of spots of a specific binding substance formed on a substrate by spot-like dropping the specific binding substance and defining regions of interest to be quantified based on the template, and a quantitative analyzer for defining regions of interest to be quantified in the image data based on the template produced by the template producing section and effecting quantitative analysis. According to thus constituted image analyzing apparatus, it is possible to define a region of interest to be quantitatively analyzed in a desired manner and accurately effect quantitative analysis.